15(2) AUTHOR:

Kopeykin, A. Amarica

sov/72-59-1-15/16

TITLE:

Production of Panelling Tiles, Senitation Products for Technical Purposes, and Wall Blocks in Italy (Proizvodstvo oblitsovochnykh plitok, sanitarno-tekhnicheskikh izdeliy i stenovykh

blokov v Italii)

PERIODICAL: Steklo i keramika, 1959, Nr 1, pp 45-48 (USSR)

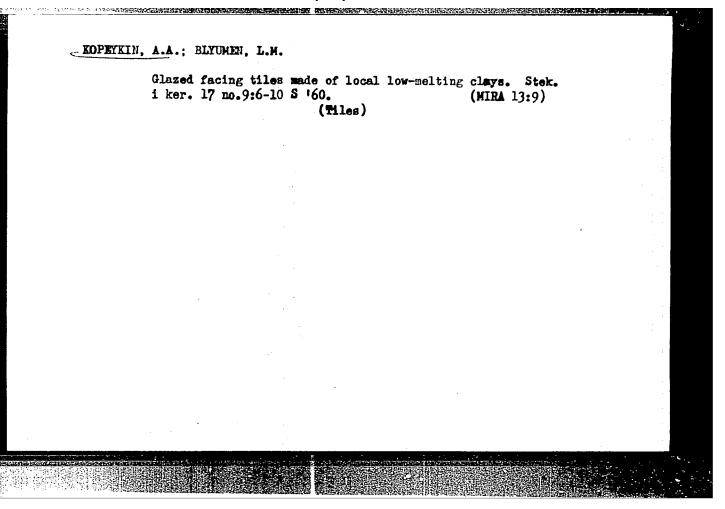
ABSTRACT:

The author visited the following factories working in this field: Ceramice la Companevid at Sassuolo; Ceramice Yoo at Milano; the ceramic tile factory at Cività Castellana; a small factory manufacturing sanitary products for technical purposes; the china and faience factory Ceramice Marcantoni and others. The author states that in the Italian ceramic industry modern high-grade muffle furnaces and electric tunnel furnaces are used (Fig 1) which secure high quality of the products. The Pagano Azzi Signorini wall block factory produces thin-walled hollow coating blocks (Fig 2) and roof tiles. Figure 3 shows the arrangement of the oil-heating system. The production of the Fornace Visana wall block factory also includes tiles. The author describes the production, storage and manufacture of raw materials and finished

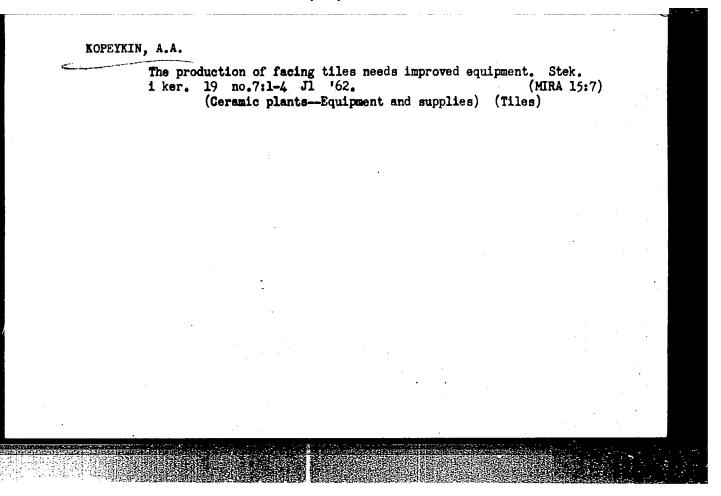
Card 1/2

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Card 2/2



Rapid rate	of development.	Stek. i ker. 18	no.10:7-9 0	0 '61.	
l. Direkto keramiki.	Nauchno-issledovatel*skogo instituta stroite		ta stroitel'n	(MIRA 14:11) 1'noy	
		(Ceramic industri	es)		
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REMPEL', A.M.; SUKHOV, P.V.; KOPEYKIN, A.A., glavnyy red.; ROKHVARGER, Ye.L., zamestitel' glavnogo red.; VASYUTINSKAYA, A.A., red.; GARTSMAN, B.M., red.; ZAYONTS, R.M., red.; LUNDINA, M.G., red.; NOSOVA, Z.A., red.; PETROV, N.A., red.; RIVKIN, A.M., red.; ROMANOV, P.R., red.; SOKOLOV, P.V., red.; FEYN, Yu.E., red.; KOSYAKINA, Z.K., red.; KASIMOV, D.Ya., tekhn.red.

[Research on clay materials] Issledovanie glinistogo syr'ia. Moskva, Gosstroiizdat, 1963. 119 p. (Kuchino. Gosudarstvennyi nauchno-issledovatel'skii institut stroitel'noi keramiki. Trudy, no.22).

(MIRA 17:3)

Stand for taking the characteristic of ballows. Priborostrosnie no.7:
26 Jl '64. (MIRA 17:11)

AUTHORS: Petrov, V. K., Kopeykin, A. P. and Mokhir, Ye. D.,

Engineers

TITLE: Comparison of Methods of Smelting Steel 18KhNVA in

Arc Furnaces (Sravneniye metodov vyplavki stali 18KhNVA

v dugovykh pechakh)

PERIODICAL: Stal', 1958, Nr 4, pp 326-330 (USSR)

ABSTRACT: In view of the introduction of the application of oxygen in electrosmelting it was necessary to compare the quality and economical indices of various methods of production of structural steel 18KhNVA in 10-ton arc furnaces. The following methods of production were compared:

1) The usual method. The charge consisted of 45-50% of scrap of the same steel, soft iron and nickel. Before charging metal low melting slag consisting of equal amounts of lime, fluorspar and chamotte (1.5% of weight of the metal) was placed on the bottom of the furnace. During melting a similar portion of slag was added under electrodes. After the melt out and checking the chemical

composition the melting slag was removed and refining slag put on. The latter was treated during the first Card 1/5 30-40 minutes with coke and then with a powder of 75%

133-58-4-13/40

Comparison of Methods of Smelting Steel 18KhNVA in Arc Furnaces

Before tapping ferrotitanium (0.06% of Ti) ferrosilicon.

and aluminium (0.3 kg/t) were introduced.

2) Using "boiling" soft iron. The charge consisted of 60-65% of scrap of the same metal, blooms of boiling soft iron (0.04-0.06C), nickel and ferromanganese. Slag-lumps of limestone and chamotte (2:1) in the amount of 4% of weight of the metal. The reducing period as in the

usual practice. 3) Smelting of scrap with blowing with oxygen. Charge: 60% of scrap of the same metal, 5-8% of high alloy scrap and carbon scrap, if necessary nickel was added. Carbon content after melt out 0.25-0.35%. After melt out the bath was

blown with oxygen for 10-15 mins, then the melting slag was removed and refining slag put on. The reducing period as in the usual practice. Before tapping ferrotitanium (0.10% Ti) and aluminium (0.5 kg/t) were added.

4) Smelting with oxidation. The charge was made from scrap of the same steel (up to 15%), pig iron (7-8%), scrap of carbon steel and necessary amount of nickel. After the melt out, the oxidation period was carried out during

Card 2/5 which, due to ore additions, not less than 0.50% of carbon was removed. The carbon content at the end of the

133-58-4-13/40

Comparison of Methods of Smelting Steel 18KhNVA in Arc Furnaces

oxidising period was lowered to 0.09-0.12%. At the beginning of the reducing period the slag was treated with coke powder then with ferrosilicon. In the middle of the refining period after the introduction of ferrochromium an addition of alloy AMS (3kg/t) was made. Before tapping ferrotitanium (0.01% Ti) and aluminium (0.5 kg/t) were added. The finished metal in all experimental heats contained 0.14-0.17% C. The metal was bottom poured in 2.7 ton ingots. Metal from all heats was rolled into rounds and squares 110-125 mm. In order to evaluate the quality of the metal from one ingot from each heat three samples were taken: A, B and X. A and X 400 mm long from the top and bottom parts respectively and B, 1500 mm long from the middle part of the rolled ingot. The investigation of the macrostructure, fracture and non-metallic inclusions was carried out on specimens cut out from A, B and X. For other tests, specimens were cut from B. The macrostructure of metal from all heats was found to be satisfactory. Fracture: this was investigated after two kinds of heat treatment: after hardening from 860°C and after the same hardening and annealing at 550. On a number

Card 3/5

133-58-4-13/40 Comparison of Methods of Smelting Steel 18KhNVA in Arc Furnaces

of fractures the presence of "platforms" was observed. These were previously found to be due to the accumulation of nitrides and oxides of titanium. During the crystallisation of ingots a part of these non-metallic inclusions, precipitates in the form of comparatively coarse films along the grain boundaries. After rolling these films become elongated along the axis of rolling sectors (in fracture - "platforms"), which form weak spots in the metal. The percentage of heats in which "platforms" were found for all four types of smelting practices was: 1) 44%; 2) 27.2%; 3) 9.1% and 4) 0%. Mechanical properties were checked on longitudinal and transverse specimens. The results are shown in Figs. 1, 2 and Table 1. Non-metallic inclusions -Table 2, Fig. 3; mean chemical composition of non-metallic inclusions - Table 3. Investigation of the tendency to growth of austenitic grains indicated that in this respect the smelting practice has no influence. Technico-economical indices of the individual smelting practices are given in Table 4. It is concluded that the most economical method of smelting 18KhNVA steel is the melting of alloyed scrap with blowing the bath with oxygen. The quality of metal is

Card 4/5

Comparison of Methods of Smelting Steel 18KhNVA in Arc Furnaces satisfactory and is not worse than when the metal is produced by other methods.
There are 4 tables and 3 figures.

ASSOCIATION: Zlatoustovskiy metallurgicheskiy zavod (Zlatoust. webs: Metallurgical Works)

- Steel--Production
   Electric furnaces--Effectiveness
   Slags--Properties
   Steel--Mechanical properties

Card 5/5

Braking devices for woodworking machines. Der.i lesokhim.prom. 2 no.10:12-14 0 '53.

1. Otdel okhrany truda i tekhniki bezopasnosti Minlebymproma.

(Woodworking machinery) (Brakee)

KOPEYKIN, Boris Aleksandrovich; DENISOVA, I.S., redaktor; RAKOV, S.I. tekhnicheskiy redaktor.

[Safety measures in the operation of woodworking machines] Mery besopssnosti pri rabote na derevo-obrabatyvaiushchikh stankakh. [Moskva] Izd-vo VTsSPS Profizdat, 1954. 115 p. (MLRA 8:8) (Woodworking machinery--Safety measures)

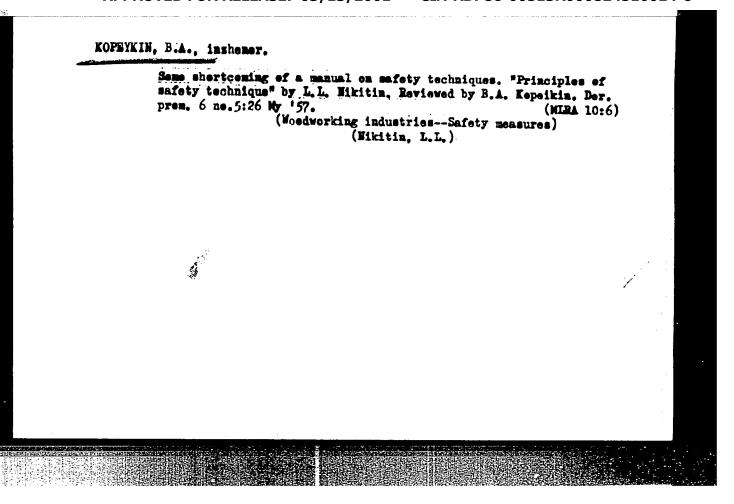
Textbook on safety techniques ("Principles of safety techniques in the woodworking industry" M.M. Bender, Reviewed by B.A. Kopeikin, M.I. Pekle and I.F. Khanin.) Der.prom.4 no.4:30-31 Ap '55 (Bender M.M.)

(Woodworking industries--Safety measures)

EXPERTISE B.A., insherer.

Striving for quality in firmiture, Der.prem. 5 me.3:16 Mr '56.
(MIRA 9:7)

1.Preisvedstvenneye upravlemiye Minbumdrevpremm SSSR.
(Furmiture industry)



KOFEYKIN, B.A.; SERGEYEV, Ye.Ye.

Textbook on the organization and planning of production. Der. prom. 14 no.4:29 Ap 165. (MIRA 18:5)

1. Belorusskiy tekhnologicheskiy institut im. S.M.Kirova.

KOPEYKIN, Fedor Filippovich; ROTENBERG, A.S., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Collective building of private homes] Kollektivnoe stroitel'stvo individual'nykh domov. Leningrad, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1958. 42 p.

(HIRA 12:8)

1. Wachal'nik stroitel'nogo tsekha fabriki "Skorokhod" (for Kopeykin).

(Building)

ALABUZHEV, P.M., prof.; KOPEYKIN, G.F., inzh.

Electropheumatic hammer with a striker restraining mechanism.

Izv. vys. ucheb. zav.; gor. zhur. no.9:76-86 159. (MIRA 14:6)

1. Novosibirskiy elektrotekhnicheskiy institut. Rekomendovana kafedroy teoreticheskoy i prikladnoy mekhaniki. (Pneumatic tools)

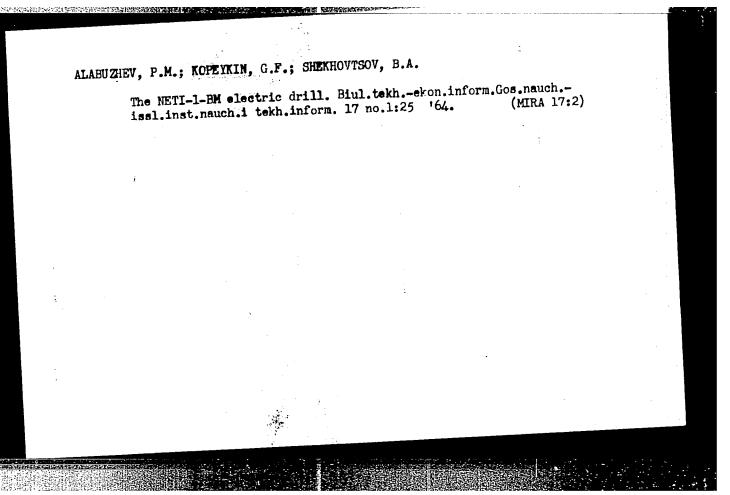
ALABUZHEV, P.M., prof.; KOFKYKIN, G.F., inzh.

Electromechanical hammer drill with a head having a lock
mechanism. Izv. vys. ucheb. zav.; gor. zhur. no.5%94.-100

\*f61.

1. Novosibirskiy elektrotekhnicheskiy institut. Rekomendovana
kafedroy mekhaniki.

(Boring machinery)



ALABUZHEV, P.M., prof.; VIL'NIT, L.N., starshiy prepodavatel;

KOPEYKIN, G.F., starshiy prepodavatel; TSIVINSKIY, Yu.P., inzh.

Movement of the striker and body of an electromechanical hammer drill with a striker-restraining mechanism. Izv. vys. ucheb. zav.; gor. zhur. no.6:74-80 161. (MIRA 16:7)

1. Novosibirskiy elektrotekhnicheskiy institut. Rekomendovana kafedroy mekhaniki.

(Boring machinery)

<u>- '0467-65</u> COPSSION NR: AP5007836	5/0288/64/600/003/0061/0066
	n, G.F.; Kuz'menke, Yu. P., Cheshev, V.F.;
TITLE: A study of torque meters	
vo 3 1964, 61-66	eniye. Izvestiya. Seriya tekhnicheskikh nauk.
orage meter	torque meter, capacitance torque meter, tensometric
tot remations of links which trans the number of lements. The authors co with appropriate impli- uncompact unit of an electromechanic	ally employs three methods for the measurement of noments transmitted to the stator of the motor and smit the moment. Many practical devices a differencentrated their study on the tensemetric and capacitations for the registration of torrows in the officel namemer. Tooks as a set that the time on ecords of either the active or the reactive manner. I have a set the reactive manner of the second of either the active or the reactive manner. I have a second of either the active or the reactive manner. I have a set the passage of shock waves in the oscillograms. Capacitative meters yield poor

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results for the same reasons. However, a four-contact spring-potentiometric meter is the authors at the Laboratoriva teoreticheskoy mekhanik! (Laboratory of the horizon of the Novosibirskiy elektroteship bessed institut (Novosibirski maineering institute) and described earlier abuser is an 20 m 10 May 1963. The Komitet po delam izobreteniy totkrytiy pri sovete Ministrov SSR (Commit entropy and Discoveries, Council at Ministris (SSR) supplies satisfactory is it actually reacts to the recoil of the impact unit and to the passage of shock as it actually reacts to the recoil of the impact unit and to the passage of shock as it actually reacts to the recoil of the impact unit and to the passage of shock as a manisms and machines of or ting as a supplied in a unit placed leads to have a passage of formulas and 3 figures.

173 CIATION: Novosibirskiy elektrotekhnicheskiy institut (Novosibirsk Electrical

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ENCL: 00

SUB CODE: EE

- SOV: 015

OTHER: 001

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ALABUZHEV, P.M., prof.; BONDAREV, V.V., inzh.; ZUYEV, A.K., inzh.; KOPEYKIN, G.F., inzh.; TRUS', A.M., inzh.; YARUNOV, A.M., inzh.

Dynamic strength of springs in impact action machines. Izv.vys. ucheb.zav.; gor.zhur. 7 no.12:58-64 64. (MIRA 18:2)

1. Novosibirskiy elektrotekhnicheskiy institut. Rekomendovana kafedroy teoreticheskoy mekhaniki.

ACC NR	AR6015964	SOURCE CODE: UI	3/0277/65/000/012/	IJP(c) 0059/0059
D AUTHOR:	Alabuzhev, P. M.;	Sondarev, V. V.; Kopeykin, G		
TITLE:	Calculating the dura	bility of cylindrical coil s	prings in impact-	action 46
	Ref. zh. Mashinostr Gidroprivod, Abs. 12	coitel'nyye materialy, konstr .48.486	uktsii i raschet	letaley
REF SOU	RCE: Sb. dokl. k Nov pirsk, 1964, 51-57	osib. nauchno-tekhn. konfere	entsii po mashinos	tr. Ch. 2.
ABSTRAC springs spring	T: A method is propo The method is base under rotating loading vice life to destruct	impact strength, durability sed for calculating the durable on the energy theory for lag. A formula is given for pain of a spring in impact-action of a spring in impact-action.	bility of cylindross of work capacoreliminary determination	ity of a ination of
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Formation of the O Phases in the Rhenium-manganese SOV/20-125-1-22/67

a = 9.92 Å, c = 4.69 Å and c/a = 0.52. Microhardness = 1234 kg/mm². Publications contain no data on the following reentgenographic results that the annealed (for 360 hours in vacuum at 1000°) alloy is homogeneous and has a lattice of the (Table 1). The phase forms from enamel (Fig 1). The conservation of phases in the systems mentioned in the title leads to additional difficulties in the theoretical explanation metals. If these phases are regarded as a type of electron shows an anomalous behavior as compared to metals of other which is Soviet.

ASSOCIATION:

Institut metallurgii im. A. A. Baykova Akademii nauk SSSR (Institute of Metallurgy imeni A. A. Baykov of the Academy of Sciences, USSR)

SUBMITTED: Card 2/2

November 17, 1958

18 4200

AUTEORS:

Lieyev, M. V., Corresponding Member, AS USSR, SOV/20-129-3-24/70 Lopetskiy, Ch. V., Savitskiy, Ye. M.,

Shekhtman, V. Sh.

TITLE:

On the Interaction of the Elements of the VIIA Subgroup With

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 3, pp 559 - 562

ABSTRACT:

Mn is known to be an anomalous metal with regard to combining forces between the atoms, the crystalline structure, etc. (Refs 1,2). Active interaction with the elements of the subgroups IVA, VA, and VIA is typical of rhenium. In connection herewith, o- and X-phases are formed in binary systems (Refs 3,4). Mn and Re are analogous with regard to the formstion of oxides, acids, etc. It is, however, unknown whether they are analogous with regard to interaction with metals. Table 1 shows distinct differences of the physical properties

of Mn, Re, and Tc. Great similarity of Mn and Re as to the formation of metallic phases can be seen in analyzing the interaction of Mn and Re with transition metals. Figure 1 shows the de-

Card 1/3

pendence of the value of the dimension factor (rassernyy faktor) P

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On the Interaction of the Elements of the VIIA Subgroup SOV/20-129-3-24/70

phase of Mn is formed as an independent compound in systems on Re basis. Since there are no papers available on Tc alloys, the binary systems can not be completely classified on the basis of subgroup VIIA. It may be assumed that To reacts in alloys in a similar way as Re. The comparatively distinct classification of the binary systems of transition metals with Mn and Re as well as a restricted set of phases existing in these systems are ob-Viously related to the key position of subgroup VIIA among transition metals. There are 1 figure, 1 table, and 7 references,

ASSOCIATION:

Institut metallurgii im. A. A. Baykova Akademii nauk SSSR (Institute of Metallurgy imeni A. A. Baykov of the Academy of

SUBMITTED:

August 12, 1959

2.... 18.1275

AUTHORS:

Savitskiy, Ye. M., Kopetskiy, Ch.

S/078/60/005/03/047/048 B004/B005

69059

TITLE:

Physicochemical Interaction Between Manganese and Miobium

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 3, pp 755-757

ABSTRACT:

It was the object of this paper to draw the phase diagram Mn - No up to a content of 30% by weight of Mh. Alloys with a niobium dontent of 2.26, 2.97, 5.6, 5.64, 16.65, 17.56, and 29.85% by weight were investigated. The nicbium was introduced into the alloys as 40-50% ligature with Mn. An investigation of the microstructures(Fig 1) proves the formation of a entectic at about 5.64% of Mb by weight. The X-ray analysis confirmed the results of the investigation of the microstructures. Beginning with 5.64% of Mb, the Debye patterns show lines of a new phase which belong to the compound Mn2Nb with a structure of the MnZn2 type. The lattice constants of this compound are indicated. The microhardness of the compound Mn2Nb checked by a TP-apparatus amounts to 768 kg/mm<sup>2</sup>, and is lower than the microhardness of the solid niobium solution in manganese (1020 kg/mm2). An increasing niobium content reduces steadily the microhardness down to 650 - 700 kg/mm<sup>2</sup>

Card 1/2

## 88595

18.1275

S/078/60/005/011/005/025 B015/B060

AUTHORS:

Savitskiy, Ye. M., Kopetskiy, Ch. V.

TITLE:

Constitution Diagrams of Systems of Manganese With Titanium

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 11,

TEXT: The constitution diagram for manganese-zirconium (up to 30 wt% Zr) and for manganese-titanium (up to 30 wt% Ti) was set up by the methods of microstructural phase analysis, X-ray phase analysis, thermal analysis, and measurement of hardness and microhardness. The alloys were prepared by repeated remelting in a vacuum high-frequency furnace of the type MB 17-4 (MVP-4) with generator of the type Arn-30 (LGP-30). The alloys (Table 1, composition) were examined both in the cast and in the annealed state. A TN (TP) apparatus served for the hardness determination, a NMT-3 (PMT-3) apparatus for the microhardness, an PK.A.(RKD) camera served for the X-ray phase analysis of the powder

Constitution Diagrams of Systems of Manganese With Titanium and Zirconium

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samples, and, finally, Kurnakov's pyrometer and a device worked out by I. I. Tyurin (Fig. 1) served for the differential thermal analysis. The pictures of microstructure (Fig. 2), of the Mn-Zr alloy show that already at a content of 4.5 wt% Zr a second phase is formed, identified as ZrMn2 compound by the X-ray analysis (Table 2, data of X-ray analysis) and having the following lattice parameters: a = 5.029 kX, c = 8.234 kX, c/a = 1.637. The X-ray pictures show furthermore that in cast specimens, Mn always occurs in the  $\beta$ -modification, whereas only  $\alpha$ -Mn is observed with annealed specimens. The results of X-ray phase analysis (Table 3) further show that the ZrMn2 compound apparently exhibits no region of homogeneity. Data obtained from the investigation of hardness and microhardness of Mn-Zr alloys (Table 4) are in good agreement with results yielded by other methods. Microstructural examinations of the Mn-Ti system (Fig. 4, pictures) as well as the X-ray structural pictures indicate the existence of two intermetallic compounds in the concentration range from 0 to 30 wt% Ti. One is TiMn2 and has a hexagonal lattice with a = 4.812 kX, c = 7.817 kX, c/a = 1.624 (Table 5, data obtained from the X-ray picture of TiMn2). The second compound, which exists at

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Constitution Diagrams of Systems of Manganese With Titanium and Zirconium

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concentrations from 6.55 to 22.5 wt% Ti, probably has the formula TiMn4 and results from a peritectic reaction at 1230°C (Table 6, data obtained from the powder X-ray picture of the new compound). Results yielded by the phase X-ray analysis of the system Mn-Ti are given in Table 7, the values from hardness tests in Table 8, values relating to microhardness in Fig. 6, and the constitution diagram in Fig. 8. Table 9 shows the results of hardness- and microhardness tests for the Mn-Zr system, and Fig. 7 shows the respective constitution diagram. Additions of zirconium and titanium to manganese have little effect on the α≥β transition, which takes place at 730°C in both cases. In the Mn-Zr system, the  $\beta \rightleftharpoons \gamma$ transition runs according to a peritectoid reaction at 1125°C, and the same holds for the Mn-Ti system at 1160°C. In both systems the alloys are hardened according to a eutectic reaction, and, more precisely, at 1160°C for the Mn-Zr system and at 1195°C for Mn-Ti. The γ ₹ transition takes place at 1225°C for both systems according to a peritectic reaction. Hardness tests showed that the intermetallic compounds ZrMn2, TiMn2, and TiMn<sub>4</sub> have a considerably lower hardness degree than  $\alpha$ - or  $\beta$ -Mn. There

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Constitution Diagrams of Systems of Manganese With Titanium and Zirconium

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are 8 figures, 9 tables, and 10 references: 1 Soviet and 5 US.

ASSOCIATION: Institut metallurgii im. A. A. Baykova Akademii nauk SSSR (Institute of Metallurgy imeni A. A. Baykov of the Academy

SUBMITTED: August 19, 1959

Card 4/4

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\$/078/60/005/011/017/025 B015/B060

AUTHORS:

Savitskiy, Ye. M., Kopetskiy, Ch. V.

TITLE:

Constitution Diagram of the Manganese - Tantalum System

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol. 5, No. 11,

TEXT: The Mn - Ta system was studied up to 24.68 at% Ta by the methods of microstructural and X-ray structural phase analysis, thermal analysis, as well as the microhardness method. The alloys were melted in a highfrequency vacuum furnace of the type MBN-4 (MVP-4) and alloys with 0.93, 1.0, 2.86, 3.64, 6.0, 8.0, 12.22, 27.58, and 51.90 wt% of tantalum were prepared. The alloys were very brittle, especially those containing 6-12% Ta. The microstructural analysis (Fig. 1) showed that alloys with 0.93 and 1.0 wt% Ta constitute a solid solution on the basis of manganese. In the alloy with 2.86 wt% Ta a second phase, which increases with increasing tantalum content, begins separating. It separates in a form which is characteristic of a eutectic reaction of the components. In alloys with 8.0 wt% Ta and over, coarse, overeutectic separations of an intermetallic

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compound were observed. X-ray analysis confirmed the last-mentioned results and it was noted that the new phase was Mn2Ta with a crystal lattice a = 4.842 kX, c = 7.895 kX, c/a = 1.630. Thermal analysis of the alloys was carried out with an apparatus described in Ref. 3, using tungsten/rhenium thermoelements of the type BP 5/20 (VR 5/20). Additions of tantalum to manganese cause a reduction of the melting point of the alloys down to the eutectic horizontal running at 1175°C. Tantalum has little effect on the temperature of the  $\alpha \rightleftharpoons \beta$  transformation taking place at 750°C. The microhardness was measured by a TMT-3 (PMT-3) instrument, and the microhardness of the compound Mn2Ta with 730 kg/mm 2 was found to be considerably lower than that of the solid solution on the basis of α-Mn (1100 - 1180 kg/mm²). The Mn - Ta constitution diagram was constructed on the strength of results obtained (Fig. 2). There are 2 figures and 4 references: 2 Soviet, 1 German, and 1 US.

SUBMITTED: May 18, 1960

Card 2/2

KOPETSKIY, Ch. V.

Cand Tech Sci - (diss) "Study of the physico-chemical reaction of manganese with rare metals." Moscow, 1961. 22 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order Glabor Red Banner imeni I. V. Stalin); 120 copies; price not

Stalin); 120 copies; price not

18 9500

1043 1160

26392 s/032/61/027/008/017/020 B124/B215

AUTHORS:

Savitskiy, Ye. M., Kopetskiy, Ch. V., Pekarev, A. I., and Novosadov, M. I.

TITLE:

Device for zone melting of high-melting metals and alloys

PERIODICAL: Zavodskaya laboratoriya, v. 27, no. 8, 1961, 1041 - 1042

TEXT: A device for zone melting (Fig. 1) was designed in the Laboratoriya redkikh metallov i splavov Instituta metallurgii AN SSSR (Laboratory of Rare Metals and Alloys of the Institute of Metallurgy, AS USSR) on the basis of western papers (A. Calverley, M. Davis, R. F. Lever, J. Sci. Inst., 34, 4, (1957); H. R. Smith, J. of Netals. 11, 2 (959)). This device may be used to obtain single-crystal roda 150 - 200 mm long and 3 - 5 mm in diameter for use in radioelectronics, in the manufacture of precision instruments, and for research purposes. In electron bombardment, a zone is melted with a width approximately equal to the diameter of the specimen serving as anode. The liquid metal is kept in the melted zone by means of surface tension. The above method permits

Device for ...

26392 S/032/61/027/008/017/020 B124/B215

the purification of rods 12 - 14 mm indi meter. The support 2 for fixing the specimen 3 is placed on the water-cooled plate 1. Tantalum springs which permit free expansion of the specimen during heating, are used for fixing the specimen in perpendicular position between the molybdenum clamps 4. The support with the fixed specimens is insulated from the plate and serves as an anode. The cathode is a loop of tungsten filament 0.6 - 0.7 mm in diameter, or is made of tantalum foil. It is fixed in position by the holders 5 made of steel. The cathode is heated by a charged copper wire connected to the holders. The support with the sathods holders is adjusted by a guide nut which is driven out of the working chamber by a conical, vacuum-tight, mobile device. One cathede holder and the plate are earthed. The electrons emitted from the cathode are focused by means of two parallel molybdenum plates placed at a distance of 4 - 5 mm from each other. The plates have 5 - 7 mm openings. The whole working chamber is enclosed by a water-cooled steel or glass envelope 7. The guide nut is rotated by a d-c electric motor 8 over a belt drive and worm reduction gear 9 at a total transmission ratio of 1:100. The electric motor is turned off by the limit switches 10 at a distance of 1 - 1.5 cm between focusing plates and specimen holders. The vacuum Card 2/5

Device for ...

26392 \$/032/61/027/008/017/020 B124/B215

system consists of a BH-2(VN-2) forepump and a BA-05-1 (VA-05-1) standard unit. The latter consists of an oil vapor diffusion pump of type H5 (N5), a slider, and a chamber with ionization and thermocouple manometers. A vacuum of 1·10<sup>-5</sup> mm Hg at an evacuation rate of 3000 1/min may be attained in the system. A rectifier consisting of a step-up transformer and four KP-110 (KR-110) kenotrons connected in parallel, was used for feeding the anode grid. The rectifier guarantees semiperiod rectification with a voltage of 3.6 kv and a maximum current of approximately 350 ma. The above feeding system permits a continuous regulation of the metal temperature and the elimination of unexpected overcharges. For visual checking of the melting process, a lens was inserted into the glass envelope through which enlarged images of the cathode heated to 2000 - 2500°C, of the focusing screens, and the zone of the melted metal can be projected onto a screen. For the purpose of degassing the specimen before zone melting, the specimen is annealed in vacuo by means of an electron beam, 100 - 300°C below the melting point of the material. The melting conditions for some high-melting metals are given in a table. The new device was used for preparing

Card 4/5

KOPEYKIN, I. S. PA 46/49731 USER/Engineering Ligni tes Aug 48 Briquetting "Industrial Briquetting of Lignites," I. S. Kopeykin, Engr, M. P. Pokrovskiy, Technician, 5 pp "Za Ekonomiyu Topliva" Vol V, No 8 Describes results of experiments conducted 1946 - 1948, studying lignites from Bashkir and Ukrainian republics under laboratory, semi-industrial, and industrial conditions, obtaining briquettes from these lignites, and treating the briquettes chemically. 46/49731

USEN/Minerals
Lignite
Requesting

"Problem of Briquetting Lignites From the Moscow
Coal Fields," I. S. Kopeykly, Engr, M. P.
Pokrovskiy, Tech, 2 pp

"Za Ekonomiyu Topliva" Vol V, No 10

Discusses briquetting of coal obtained from mines
around Moscow, detailing classification, crushing, drying, pressing, and cooling.

43/49781

Using coal from Ekibastus. Elek.sta. 31 no.5:82-85
Ny '60. (MIRA 13:8)
(Krasnogorsk-Electric power stations)

AUTHORS:

Trukhan, V. I., Member of the Supreme Soviet of the USSE, and 92**-5**8-5-3/30 Foremen: Kopeykin, M. F.; Shtykh, A. P.; Samoylov, V. I.; Beldina, Ye. A.

TITLE:

Appeal to All Operators, Specialists and Workmen of the Most Important Professions in Enterprises of the Petroleum and Charical Industry (Ko vsem operatorem, apparatchikam i rabochim vedushchikh professiy predpriyatly neftyenoy i khiricheskoy prograhlennosti)

PERIODICAL: Neftymaik, 1958, Nr 5, p 3 (USSR)

ABSTRACT:

This appeal to all operators, specialists and workmen of the petroleum and chemical industry enumerates the achievements attained by chemical industry workers in 1957 and it urges them to make a further effort to increase the output of fartilizers, synthetic rubber, paints, plastics, etc. It also urges them to improve processing methods by taking advantage of advanced techniques and automation. A pledge by various tesms of chemical pleats, shops and factories is included in this appeal. They pledge to improve operating conditions of processing units, to obtain better operational results, to overfulfill the annual production plan, and to hit new peaks in the output of chemicals. The results of operations carried out during the Mirst querter of 1958 indicate that the obligations undertaken by the chemical industry workers will be discharged in time.

Card 1/1

1. Petroleum industry-USSR 2. Chemical industry-USSR ---Pledges

USSR/Human and Animal Morphology. Circulatory System.

S-2

Abs Jour : Rof Zhur - Biol., No 7, 1958, No 31287

Muthor

: Kopeykin N.G.

Inst

: Not Given

Title

: On the Anatomy of the Colleteral Arterial Vessels of the Mala Gonital Gland.

Orig Fub : Tr. Gor'kovsk. gos. med. in-te, Gor'kiy, Knigotadet, 1956,

Abstract: In 62 prepared fetuses of children and adults, the sources of the colleterel blood supply of the bestes were established in the area of different compartments of the internal spermatic artery. Moreover, other vessels participate in the blood-supply of the testes: in the abdominal cavity, branches of renal and of deep ileosecral erteries (A); in the area of the inguinel cenal, branches of the outer spermatic  $\Lambda$  and the  $\Lambda$  of the ejeculatory duct; in the scrotal compartment, external spermatic arteries in the tissue of the testicle, there are

Card : 1/2

S

USSR / Human and Animal Morphology (Normal and

Pathological): Arterio-Vascular

System. Vessels.

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 12322

Author : Kopeykin, N.G.

: Gorkiy State Medical Institute Inst Title

: On the Anatomy of Arteries of the Dererent Duct.

: Tr. Gor'kovsk. gos. med. in-ta. Gor'kiy, Orig Pub

Knigoizdat, 1956, 118-121

Abstract : After injection of the vessels with colored sub-

stances, it was shown in 68 specimens that the deferent duct (DD) most frequently receives arterial branches from two sources, more rarely from three and in one case from five. The

sources of DD arteries are varied. Topographic

Card 1/2

MOPEYKIN, N.G. (Ger'kiy)

Device for measuring the lumen and thickness of vascular walls. Arkh. pat. 27 no.11:71-73 650

1. Kafedra quatomii (zav. - doktor med.nauk A.S.Obysov) Gortkovskogo meditsinskogo instituta imeni S.M.Kireva. Submitted July 25, 1964.

DOMBRACHEVA, 16.7.: KCZLOV, A.M.; KRICHEVSKIY, M.Ye.; LAPITSKIY, M.A.;

LISTOVSKIY, M.D.; LUKAHOV, M.A.; MARUKOV, M.P.; MICHORIKA, V.V.;

POLITAGREMED, A.V.; THOPPHEV, M.A.; TSVETKOV, V.S.; CHISTYAKOV,

V.D.; KOPMYKI, P.A., insh., red.; KRYUKOV, V.L., red.; KOBYLYAKOV,

L.M.; red.; ZURKINIA, V.P., tekhn. red.

[Practices in tractor repair] Opt remonta traktorov. Moskva, Gos.

izd-vo sel'khos. lit-ry, 1958. 301 p. (MIRA 11:7)

(Tractors—Maintenance and repair)

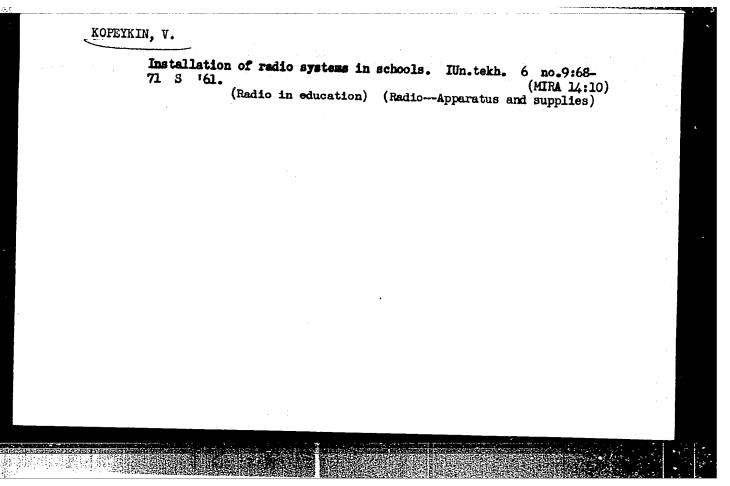
LAPITSKIY, Mikhail Andreyevich; ASTVATSATUROV, Gayk Gareginovich; KOZLOV, A.M., retsenzent; LOSEV, V.N., insh., retsenzent; KOPEYKIN, P.A., insh., red.; TIKHANOV, A.Ya., tekhn.red.

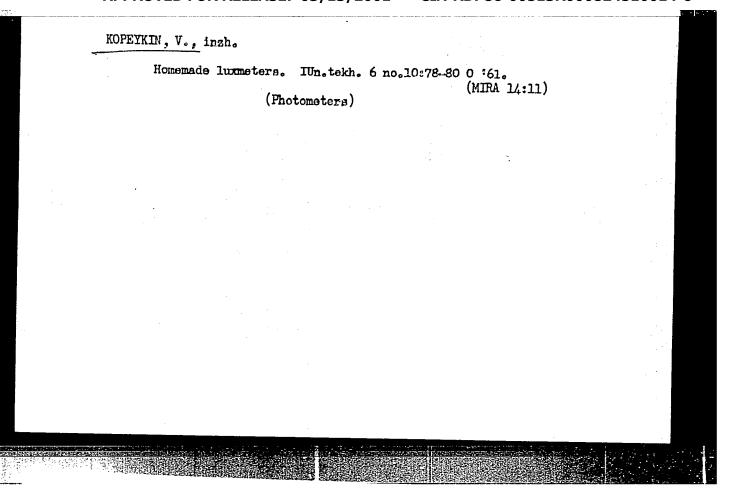
[Equipment for dismounting, assembling, and adjusting diesel tractors] Oborudovanie dlia razborki, sborki i regulirovki disel'nykh traktorov. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 139 p. (MIRA 13:7) (Tractors--Maintenance and repair)

Young technicians, do your own installation of automatic control for water pumps on farms, in workers' settlements, in your school.

IUn.tekh. 5 no.6:6-7 Je \*61. (MIRA 14:9)

(Pumping machinery) (Automatic control)





SHCHERBAKUV, V. (Moskovskeya obl.); BORGVKOV, V.; KOZLOV, Yu. (st.
Alabushevo, Moskovskoy obl.); KOPEYKIN, V. (g. Pushkino);
KOLOSOV, I. (g. Leningrad); RAKCHEYLV, N. (g. Torzhok); MARTYMOV, K.

Repaired by amateurs. Radio no.8:47-48 Ag ¹61. (MIRA 14:10)

(Television—Repairing)

5(0) AUTHOR:

Kopeykin, V. A.

SOV/131-59-8-10/14

TITLE:

News in Brief. Mendeleyev Congress on General and Applied

Chemistry

PERIODICAL:

Ogneupory, 1959, Nr 8, pp 379-381 (USSR)

ABSTRACT:

The VIII Mendeleyev Congress was held in Moscow in April 1959. The section of chemistry and technology of silicates was attended by about 500 delegates from Moscow, Leningrad, Kiyev, Khar'kov, Riga, Novorossiysk, Krasnoyarsk, Sverdlovsk, Gor'kiy, Minsk, and Tbilisi as well as from the Hungarian People's Republic, the East-German and the Czechoslovakian Republic. Academician P. P. Budnikov of the AS USSR opened the work of this section. Among others the following subjects were discussed: synthesis of refractories with increased thermal and chemical stability; production of new materials from highly refractory pure metallic oxides, carbides, nitrides, borides, and cermets. The section was presented more than 60 reports. P. S. Mamykin and N. V. Zinov'yev reported on research results

Card 1/3

of refractory and ceramic properties of the system chromite

News in Brief. Mendeleyev Congress on General and Applied Chemistry

alumina. P. P. Budnikov and V. G. Savel'yev referred to the use of barium monoaluminate (BaO.Al203) as a binding agent for the production of heatproof concrete. N. I. Voronin, N. I. Krasotkina, and V. A. Smirnova reported on refractory carborundum products on nitride binding. Ye. Ya. Antonova and A. A. Appen spoke about a new type of heat-resisting glassmetallic protective coatings for steel against the action of air at high temperatures. C. V. Kukolev and K. A. Mikhaylova dealt with the influence exerted by active additions on the density of refractories during the process of pressing and on the properties of burnt samples. Ya. V. Klyucharov, S. A. Levenshteyn, and Chier Tischien explained problems related to the mechanism of the spinal formation MgO.Al203 and MgO.Cr203. K. S utateladze and N. G. Dzhincharadze discussed the production of a new kind of binding agents on the basis of alunite. N. K. Antonevich reported on electric dehydration of ceramic suspensions. In the NIIStroykeramika various types of continuously working electric dehydration machines were designed.

M. K. Gal'perina and Ye. N. Zavarzina reported on new investiga-

Card 2/3

News in Brief. Mendeleyev Congress on General and Applied Chemistry

tion methods for drossing properties. M. G. Manvelyan spoke about an extensive utilization of natural alkali aluminum silicates. V. V. Myshlyayeva and I. V. Bogdanova lectured on an economical chemical analysis of silicates. N. N. Sinel'nikov disputed the theory of recrystallization of quartz in tridymite by melting only. S. M. Shotenberg dealt with the determination of technological properties of kinds of clay by the thermographical method. P. V. Sokolov lectured on the dynamics of charging the mass in gypsum molds. It was noted with satisfaction that many reports were written by young scientists.

Card 3/3

KOPLYKIN, V.A.; POLUBOYALINOV, D.H.

Phase composition of cerasics having a high alumina content.

Ogneugory 25 no.12:566-572 '60. (MIRA 14:1)

1. Khimiko-tekhnologicheskiy institut im.Mondolegeva. (Coramics)

L 32046-66 EWP(e)/EWT(m)/T/EWP(t)/ETI IJP(c) JD/WW/JG/AT/WH ACC NR: AP6013338 (A) SOURCE CODE: UR/0363/66/002/004/0604/0607

AUTHOR: Meyerson, G.A.; Fekhretdinov, F.A.; Kopeykin, V.A.; Medvedev, A.A.; & & Moiseytseva, Z.K.

ORG: none

21 21 21

TITLE: Thermodiffusive interaction of tantalum and boron carbide powder in a vacuum

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v.2, no. 4, 1966, 604-607

TOPIC TAGS: tantalum, boron compound, tantalum compound, carbide, thermal diffusion

ABSTRACT: The object of the study was to determine the phase composition and arrangement of diffusion layers on tantalum obtained by thermal diffusion in a boron carbide charge at  $1200-1700\mathrm{C}$  in a vacuum of  $3\times10^{-4}$  mm Hg. The phase composition and structure of the coatings on tantalum were analyzed by x-ray diffraction and microscopic examination. A diffusion coating consisting of the borides TaB2, TaB, and Ta2B and up to  $4\mu$  thick was found to be formed on the surface of the samples at 1200, 1300, and 1400C. After treatment at 1500, 1600, and 1700C, the powder patterns show strong lines of tantalum carbide TaC, and faint lines of TaB2 and Ta3B4, indicating that TaC is the main phase in the reflecting layer. A faint line corresponding to the strongest

Card 1/2

UDC: 546.683 + 546.271261

Card 2/2

PROVED FOR DELFASE- 03/13/2001 CIA-RDP86-00513R000824510014

KOPEYKIN, V. A. Cand Tech Sci -- "Study of the phase composition of high-alumina ceramics." Mos, 1961 (Min of Higher and Secondary Specialized Education RSFSR. Len Order of Labor Red Banner Technological Inst im Lensovet). (KL, 4-61, 197)

193

# APPROVED FOR RELEASE; 03/13/2001.; KGIAKROP86.905138000824510014-(Krasnodar)

Effect of ultrasonic waves and the temperature on the colloidal characteristics of the blood serum in man. Biul. eksp. biol. i med. 55 no.2:53-55 F'63. (MIRA 16:6)

1. Iz kafedry obshchey gigiyeny (zav. - prof. F.S.Ckolov) Kubanskogo meditsinskogo instituta. (ULTRASONIC WAVES--PHYSIOLOGICAL EFFECT) (HEAT--PHYSIOLOGICAL EFFECT) (SERUM)

ACC NR: AP7002672

SOURCE CODE: UR/0109/67/012/001/0132/0136

AUTHOR: Kopeykin, V. I.

ORG: none

TITLE: Calculating the directive gain of a rectangular aperture in the Fresnel region

SOURCE: Radiotekhnika i elektronika, v. 12, no. 1, 1967, 132-136

TOPIC TAGS: SHF antenna, antenna directivity

ABSTRACT: C. Polk suggested a formula for the directive gain of a rectangular cophasal aperture in the Fresnel region, for a uniform amplitude field distribution over the aperture (IRE Trans., AP-4, 1956, 1, 65). As in most practical cases the amplitude distribution falls off toward the aperture edges, a modified approach to calculating the directive gain is needed; such an approach is offered in the present article. Integral formulas for the directive gain in Fresnel and Fraunhoffer regions are written, and their ratio is presented as: D  $D_{\rm acc} = B_1 B_2$ , where each coefficient  $B_1$  and  $B_2$  is determined by a function of amplitude distribution along a corresponding side of the aperture. By using approximation techniques, a set of auxiliary curves is plotted which permit determining B-coefficients. Orig. art. has: 3 figures, 20 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: 29Jan66 / ORIG REF: 001 / OTH REF: 002

Card 1/1

UDC: 621.396.67.012.12.001.24

OKOLOV, F.S.; NIKOLOV, S.Kh.; IVANOV, R.F.; KOPEYKIN, V.I.; PODDUBNAYA, V.A.

Effect of ultrasonic waves on the colloidal properties of the human blood serum. Nauch. trudy Kub. gos. med. inst. 19: 111-119 '62. (MIRA 17:8)

1. Iz kafedry obshchey gigiyeny (zaveduyushchiy - zasluzhennyy deyatel nauki Kirgizskoy SSR prof. F.S. Okolov) Kubanskogo gosudarstvennogo meditsinskogo instituta.

# KOPEYKIN, V.N. assistent

Method of preparing removable dental prosthesis for toothless jaws from quick-hardening plastic material. Stomatologia 38 no.5:69-71 S-0 159. (MIRA 13:3)

1. Iz kafedry ortopedicheskoy stomatologii (zavednyushchiy - prof. V.Yu. Kurlyandskiy) Moskovskogo meditsinskogo stomatologicheskogo instituta (direktor - dotsent G.F. Beletskiy).

(DESTAL PROSTHESIS)

KOPEYKIN, V.N., assistent

Use of quick-hardening plastic aterial in the preparation of removable prosthesis. Stomatologiia 38 no.2:61-62 Ap 159 (MIRA 12:7)

1. Iz kafedry ortopedicheskoy stomatologii (zav. - prof. V.Tu. Kurlyandskiy) Moskovskogo meditsinskogo stomatologicheskogo instituta (dir. - dotsent G. N. Beletskiy)

(DENTAL PROSTHESIS) (PIASTICS)

New plastic and an apparatus for preparing dental prostheses by molding under pressure. Stomatologiia 40 no.3:94-100 My-Je '61. (MIRA 14:12)						
Kurlyandskiy) Minstituta (dir.	oskovskogo medi	stomatologii (zav. tsinskogo stomatolo Beletskiy). (DENTAL INS	- prof. V.Yu. ogicheskogo STRUMENTS AND APPA	ARATUS)		
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RASKIN, Iosif Aleksendrovich; KALISH, Samuil Ionovich; MATVEYEV,
Vladimir Ivanovich. Prinimali uchastiye; DUBROVSKIY, V.I.;
KOPEYKIN, V.N.; D'YAKOVA, G.B., red. izd-va; IL'INSKAYA,
G.M., tekhn. red.

[Installation, adjustment and operation of fans in mines]Montazh, naladka i ekspluatatsiia shakhtnykh ventiliatorov. Moskva, Gosgortekhizdat, 1962. 296 p. (MIRA 16:2)

(Mine ventilation)

KOPEYKIN, Vadim-Nikolayevich; KNUHOVETS, Yakov Samuilovich;
KURLYANDSKIY Veniamin Yur'yevich; OKSMAN, Isaak
Mikhaylovich; KALONTAROV, D.Ye.,kand. med. nauk, red.;
KOROLEV, A.V., tekhn. red.

[Technique of prosthodontics] Zuboproteznaia tekhnika. [By]
V.N.Kopeikin i dr. Moskva, Izd-vo "Meditsina," 1964. 343 p.

(MIRA 17:4)

	S/058/63/000/003/050/10 <sup>4</sup> A062/A101	
AUTHOR:	Kopeykin, V. P.	
TITLE:	Novel and modernized devices of NIKFI for color sensitometry	
PERIODICAL	Referativnyy zhurnal, Fizika, no. 3, 1963, 87, abstract 3D591 ("Uspekhi nauchm. fotogr.", 1962, v. 8, 225 - 234)	
TEAT:	The author describes novel and modernized devices, produced by NIKFI,	
multilayer :	machine for processing 35-mm films (reequipped 60 1 (60 P1)). The	
	TIO O M. Mag SMI 12 OPREINEU AVI VOLUE METERIALISMO DE LA CONTRACTOR DE LA	
color sensi	arent backing and for black-and-white films. The sensitometer has a parent backing and for black-and-white films. The sensitometer has a parent backing and for black-and-white films.	
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Novel and modernized devices of ...

s/058/63/000/003/050/10<sup>4</sup> A062/A101

The optical system includes a three-lens condenser (instead of the 6 lens), thus providing a considerably higher illumination level in the wedge plane. The color paper sensitometer LICE-3 (TsSB-3) has a sensitometric wedge with a constant 0.15 and three durations of illumination - 1, & and 64 sec. A manual release of the shutter diaphragm is foreseen. Exposure is effected by the light of an incandescent lamp with a color temperature of 2,8500K. The illumination in the plane of the wedge is 150 - 200 lux. The color densitometer [1] -7 (TsD-7) is destined for measuring, in transmitted light, the density of either positive or negative sensitograms on a transparent backing. Applying the attachment ПДД \_4 (PDD-4), which is an illumination device complementary to the color densitometer, permits to measure on it the densities of color and black-and-white photographic papers in the reflected light. The scale of the galvanometer of the device is calibrated in units VESP (FESP) in the range of densities 0 - 3.0; the black-white fields on the transparent backing are measured in the range 0 -5.0, and the color and black-white fields on the opaque backing - in the range of densities 0 - 2.5. The densitometer is provided with a set of changeable scales for every film form, and the reading is made directly in density units. The correction of the indications of the device is effected by tuning the radio

Card 2/3

Novel and modernized	devices of		s/058/63/000/003/050/10 A062/A101	
(PPTsS) for processi sensitograms of the	ng sensitograms perm	its to develop	eloping device NNUC p simultaneously 8 flexible of 35 mm motion-picture ographic paper.	
			D. Balabukha	
[Abstracter's note:	Complete translatio	n]		
교하는데 아닌지의 교통되는 첫째 아니라 대표 첫째인 사				
Card 3/3				

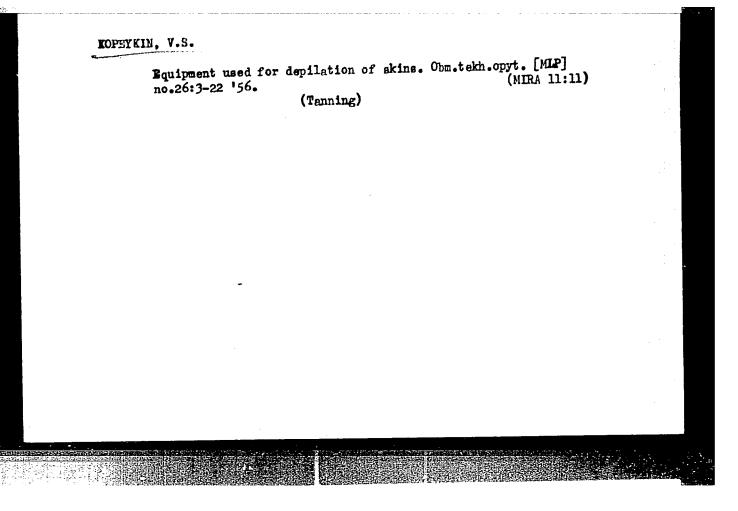
Moreykin, V.P., insh.; Mikhayiov, G.D., insh.

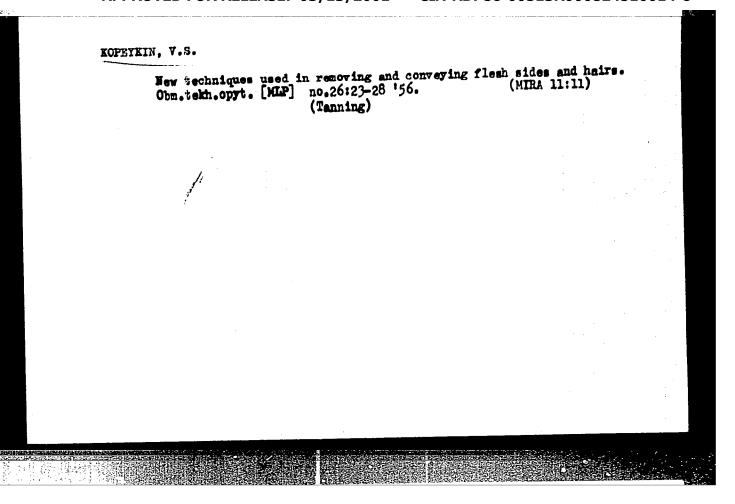
Mechanised stabilisation of soils of roadbeds. Transp. stroi.
14 no.11:7-8 N '64. (MIRA 18:3)

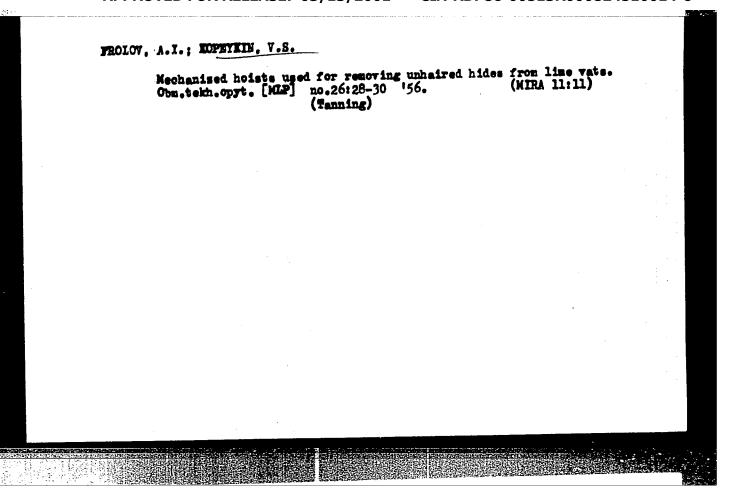
TIMORHIU, N.A.; KOPEYKIN, V.S.

Unhairing by a solution under pressure. Leg. pros. 15 no.6:41-44 Je 155. (Hides and skins)

(Hides and skins)







Mechanizing the cleaning of lime vats and the delivery of liming residue to customers. Obm.tekh.opyt. [MLP] no.26:46-50 '56. (MIRA 11:11)

(Tanning) (Waste products)

KOPEYKIN, V.S., inzh.

Automation of the stacking up of skins. Mekh. i avtom.proizv.
16 no.1:16-18 Ja '62. (MIRA 15:1)

(Leather industry--Equipment and supplies)

(Automation)

5(4) AUTHORS:

Chesnokov, O. F., Kopeykin, Yu. A.

SOV/32-24-12-26/45

TITLE:

An Improvement in the Method of Sample Dispersion in Spectral Analysis (Usovershenstvovaniye metoda prosypki

prob v spektral nom analize)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 12,

pp 1487 - 1489 (USSR)

ABSTRACT:

In order to improve the method mentioned in the title (Refs 1.4) an electromagnetic vibrator was used which transforms the spread-out, pulverized sample to dust and blows it into the electric arc (Fig 1). The combustion of equal amounts of sample and a uniform addition of the sample to the vibrator are carried out by a special apparatus, so that with a time of exposure of 30 seconds the duration of the addition of equal amounts of sample varies only by ± 1 second. The addition of the sample by the vibrator produces air currents, thus hindering an agglomeration of the sample, which can take place by the ordinary method involving air blowing. Two series of standards prepared with a silicon-calcium

Card 1/2

An Improvement in the Method of Sample Dispersion in SOV/32-24-12-26/45

and containing molybdenum, tin, lead, tungsten, and nickel in the concentrations of 0.003, 0.01, 0.03 and 0.1% were analyzed by the normal method and by the method described here. The calibration curves for the same spectral lines lie considerably closer to one another in the method described here. To determine the effect of buffers the data of T. N. Zhigalovskaya (Ref 5) were used, and it was found that the introduction of buffers does not increase the sensitivity of the analysis (Fig 3). There are 3 figures and 5 Soviet references.

ASSOCIATION:

Kompleksnaya geofizicheskaya ekspeditsiya Sibgeofiztresta (Combined Geophysical Expedition Sibgeofiztrest)

Card 2/2

USSR/Physics - Unstable equilibrium

FD-3093

Card 1/1

Pub. 85 - 8/16

Author

: Kopeykin, Yu. D.; Leonov, M. Ya. (L'vov)

Title

: A special case of loss of stability of equilibrium of a compressed rod

Periodical

: Prikl. mat. i mekh., 19, Nov-Dec 1955, 736-737

Abstract

: In the determination of loads causing loss of stability of definite forms of equilibrium of elastic systems one ordinarily finds those loads for which there exist along with the investigated one other forms of equilibrium. In the present note the author presents an example for which the method of Euler cannot give the solution of the problem. He considers a rod held fast at one end and centrally loaded at the free end by a longitudinal force which remains normal to the terminal cross-section during bending of the rod. The author claims that V. I. Fedos'yev's book (Izbrannyye zadachi i voprosy po soprotivleniyu materialov [Collected tasks and problems on resistance of materials], GTTI, p. 165) gives an erroneous derivation of stability of a rod under any magnitude of the compressional force.

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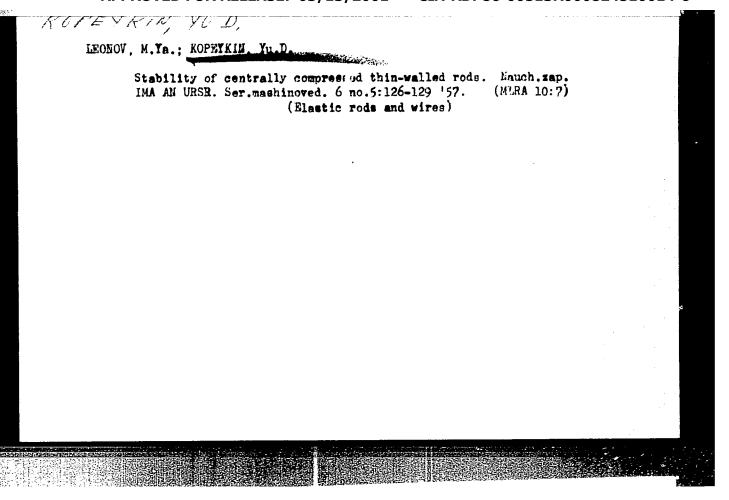
Submitted: September 15, 1954

Designing eccentrically compressed thin-walled rods using the theory of V.Z. Vlasor [with summaries in Russian and English].

Prykl.mekh. 3 no.2:169-178 '57. (NIRA 10:9)

1. L'wiwskiy politekhnichniy institut.

(Flastic rods and wires)



SOV/124-58-8-9219 D

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 8, p 127 (USSR)

AUTHOR: Kopeykin, Yu.D.

TITLE: On the Calculation of Thin-walled Beams Subjected to Eccentric

Compressive Stresses in Accordance With the V.Z. Vlasov Theory (K raschetu vnetsentrenno szhatykh tonkostennykh

sterzhney po teorii V.Z. Vlasova)

ABSTRACT: Bibliographic entry on the author's dissertation for the de-

gree of Candidate of Technical Sciences, presented to the In-t stroit. mekhan. AN UkrSSR (Institute of Structural Mechanics,

Academy of Sciences, Ukrainian SSR), Kiyev, 1958

ASSOCIATION: In-t stroit. mekhan. AN UkrSSR (Institute of Structural Mechanics, Academy of Sciences, Ukrainian SSR), Kiyev

(KL-16-58, p/20)

Card 1/1

KOPEYKIN, Yu.D. (L'vov)

Formation of problems on the search of stress functions by means of biharmonic potentials. Prikl. makh. 1 no.2:104-109
165.

1. L'vovskiy politekhnicheskiy institut.

AUTHOR: Kopeykin, Yu. D. (L'vov)

TITLE: Integral equations for the spatial problem of elastic body statics

3 FROE: Prikladnaya mekhanika, v. 1, no. 5, 1965, 29-35

TIPIC TAGS: integral equation, potential theory, boundary value problem, construction, statics, elasticity theory

ABSTRACT: Four fundamental boundary value problems are discussed in the statics of elastic bodies by introducing new singular integral equations. The stress function  $\bar{a} = \int \frac{-\cos \phi}{r^2} \, ds.$ 

representated in detail, and the singular integral equation for the first started as well as the internal boundary value problem, are given by

$$2^{(1)} + \mu_1 x_{10} - \alpha_{10} \sum_{i=1}^{3} \alpha_{j0} x_{j0} = -\frac{\eta}{4\pi} I^{(1)} + \frac{\eta}{\pi} (1 - \mu_1 F) \qquad i = 1, 2, 3$$

Card 1/3

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were  $\chi^{(1)}$  is an integral that appears in the stress function equation. The solution is given for the vector density  $\chi_{10}$ , and two types of stress functions are considered

 $a_1 = \frac{\partial}{\partial x_{10}} \int_{S} \frac{v_1}{r} ds; \qquad a_2 = \frac{\partial}{\partial x_{20}} \int_{S} \frac{v_2}{r} ds; \qquad a_3 = \frac{\partial}{\partial x_{20}} \int_{S} \frac{v_3}{r} ds, \quad a_4 = \frac{d}{dn_0} \int_{S} \frac{v_1}{r} ds = \int_{S} v_1 \frac{\cos \psi}{r^2} ds, \quad i = 1; 2; 3$ 

for this first case. The second boundary value problem gives a biharmonic function  $\xi = \frac{1}{2(1-\mu)} \operatorname{divg}$ 

for a stress function

 $a_i = \int_{S} \frac{\dot{v}_i}{r} ds;$  i = 1; 2; 3;  $\bar{a} = \int_{S} \frac{\bar{v}}{r} ds.$ 

This same stress function is used for the third boundary value problem leading to the integral equation

 $v_{i0} = -\frac{(1-2\mu)\eta}{4\pi(1-\mu)} \left[ I_4^{(i)} + \frac{\omega_i}{G} \int_{s}^{1} \frac{1}{r} \left( v_i + \frac{\beta_i}{1-2\mu} \sum_{i=1}^{3} \beta_i v_i \right) ds \right] + \frac{\eta \Phi_i}{4\pi G}.$  i = 1: 2; 3.

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ACCESSION NR: AP5014823

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The stress function for the fourth boundary value problem is given by

$$a_{l} = \int_{S_{l}} \frac{\mathbf{v}_{l}}{r} ds + \int_{S_{l}} \frac{\mathbf{x}_{l} \cos \varphi}{r^{1}} ds.$$

The corresponding integral equation is obtained as a set of three equations with The same annountarity properties as the first three boundary value problems. "The tur. art. mass 28 equations.

ANNO CLATTER: L'vovskiy politekhnicheskiy institut (L'vov Polytechnic Institute)

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OTHER: COO

Card 3/3

### APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000824510014-Kopeykin, Yesti

USSR/Soil Science - Genesis and Geography of Soils.

J-2

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 10482

Author

: Kopeykin, Yu.P.

Inst

Northern Ossete Agricultural Institute

Title

Several Characteristics of the Chemical Composition of the

Chernozems of the Alkhanchurt Valley.

Orig Pub

: Tr. Severo-Osetinsk. s.-kh. in-ta, 1956, 17, 65-80.

Abstract

Carbonate and saline chernozems are found throughout the valley. In the carbonate chernozems the A B horizons are 60-80 cm. thick; the structure is dusty-lumpy and grainy-lumpy. The humus of the A horizon contains 5-8% nitrogen; calcium predominates in the absorbed bases (86% of the total cations), while there is a heightened content of magnesium. The saline chernozems have thinner humus horizons -- 50-60 cm., a compact profile, coarsely-

Card 1/2

# Resources and composition of humus in the Chernozem seils of the Alkhan-Churt Valley. Pochvovedenie nc.7:99-105 Jl '63. (MIRA 16:8) 1. Severo-osetinskaya gosudarstvennaya sel'skokhozyaystvennaya opytnaya stantsiya. (Alkhan-Churt Valley—Humus) (Alkhan-Churt Valley—Chernozem soils)

KOPEYKIN, Yuriy Vissarionovich; RUBILIN, Ye.V., prof., rukovoditel' raboty; TROFIMENKO, K.I., dotsent, rukovoditel' raboty; FILIPENOK, T.G., red.

[Soils of the Alkhanchurt Valley.] Pochvy Alkhan-Churtskoi doliny. [Groznyi] Checheno-Ingushskoe knizhnoe izd-vo, 1963. 141p. (Grozny. Checheno-Ingushskii nauchno-issledovatel'skii institut. Izvestiia, vol.7). (MIRA 17:12)

17(2)

SOV/177-58-11-12/50

AUTHORS:

Ostrovskiy, I.I., Lieutenant-Colonel of the Medical Corps, Kopeykina, A.A., Major of the Medical Corps logical

TITLE:

The Organization of Viro /Investigations in

Influenza in the Laboratory of a Travelling Sanitary-

Epidemiologic Squadron

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1958, Nr 11, pp 43 -

45 (USSR)

ABSTRACT:

The authors state that laboratory diagnosis is the only reliable method for recognizing vire-/influenza. The studied the local outbreaks of influenza during

the spring-summer period of 1957 applying virological

diagnosis in the bacteriological laboratory of a travelling sanitary-epidemiologic squadron. The investigations included determination of the types of viruses eliminated by patients and the reactions of the inhibition of hemagglutination of twin sera of persons who had had influenza. In May, in the

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SOV/177-58-11-12/50

logical

The Organization of Viro-/Investigations in Influenza in the Laboratory of a Travelling Sanitary-Epidemiologic Squadron

pharynx rinsing water of patients of three military units, strains of the influenza virus were found; the hemagglutination reaction was clearly pronounced in the titer 1:40 - 1:80. The Institut virusologii imeni Ivanovskogo (Institute of Virology imeni Ivanovskiy) classified the virus as type A<sub>1</sub> with certain immunological distinctions. In June, influenza viruses A and A<sub>1</sub> were found and identified again, in September, type A<sub>2</sub> was investigated in the laboratory of the Department for Diagnosis of Influenza of the Institut virusologii AMN SSSR (Institute of Virology of the AMN USSR). With antiserum "Singapur", the strains were neutralized up to the full titer. In January/February, the increase of virucidal antibodies was investigated in twin sera of patients who had been injected against influenza with monovalent vaccine A<sub>2</sub> and polyvalent vaccine A,A<sub>1</sub>,B,C and D and

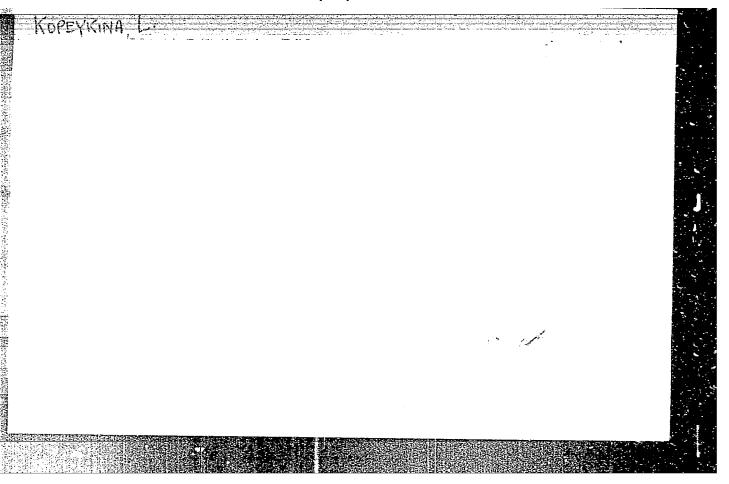
Card 2/3

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### KOPKYKINA, A.A.

Preparation and preservation of a thrombocyte mass. Problemat. i perel. krovi 8. no.1:38-42 Ja '63. (MIRA 16:5)

l. Iz L'vovskogo nauchno-issledovatel'skogo instituta gematologii i perelivaniya krovi (direktor - dotsent D.G. Petrov). (HLOOD PLATELETS) (HLOOD-TRANSFUSION)



KAPUSTIN, B.N., glav. inzh.; GVOZDEV, T.T., glav. inzh.; GRIGOROVICH, V.D., inzh.; KONDRASHENKO, A.A., inzh.; ABADEYEV, Yu.A., inzh.; RYADNOV, A.A., inzh.; YEGORYCHEV, V.F., inzh.; SHMEL'KIN, B.A., inzh.; MARSHUTIN, S.F., inzh.; KHODZHABARONOV, K.G., inzh.; FEDOSOVA, Ye.M., tekhnik; OSIN, V.I., tekhnik; SEMENOVA, Ye.P., tekhnik; AVSARAGOVA, G.A., tekhnik; PASHKEYEV, D.A., inzh.; KAFUSTIN, V.N., inzh.; NAGOROV, L.A., inzh.; IONOV, I.T., inzh.; KOFEYKINA, L.M., inzh.; TELEPNEVA, T.P., tekhnik; CHAKURIN, Zh.G., tekhnik

[Album of the mechanization of labor-consuming processes in stockbreeding] Al'bom mekhanizatsii trudoemkikh protsessov v zhivotnovodstve. Moskva, Izd-ve Giprosel'khoza. No.4. Equipment and supplies for the mechanization of labor-consuming processes on livestock farms] Oborudovanie i inventar' dlia mekhanizatsii trudoemkikh protsessov na zhivotnovodcheskikh fermakh. 1959 [cover: 1961. 229] p. (MIRA 15:7)

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(Continued on next card)

KAPUSTIN, B.N.—(continued). Card 2.

2. Respublikanskiy gosudarstvennyy institut po proyektirovaniyu sovkhoznogo stroitel'stva (for Gvozdev, Pashkeyev, Kapustin, V.N., Nagorov, Ionov, Kopeykina, Telepneva, Chakurin).

(Agricultural machinery)

RUBASFKIN, A.S., 'zh.; TSEYTLIN, R.A., inzh.; MAKAROV, A.S., inzh.; KOPEYKINA, L.V., red.

[Methods for adjusting the automatic control systems of once-through type boilers] Metodika naladki sistem avtomaticheskogo regulirovaniia priamotochnykh kotlov. Moskva, Izd-vo "Energiia," 1964. 110 p. (MIRA 17:6)

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BELOV, N.V., inzh.; NOYEV, V.N., inzh.; OERAZTSOVA, N.V., inzh., red.;
YALYSHEV, Z.S., inzh., red.; KOPEYKINA, L.V., red.

[Nethods of industrial thermochemical testing of barrel boilers] Metodika ekspluatatsionnykh teplokhimicheskikh ispytanii barabannykh kotlov. Moskva, Izd-vo "Energiia," 1964. 126 p. (MIRA 17:6)

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(Electric power)

VASIL'YEV, S.V., inzh., red.; KOPEYKINA, L.V., red.; FRIDKIN, L.M., tekhn. red.

[Present state and measures for the further improvement of industrial safety and safety engineering on construction sites, enterprises, and in organizations of the State Production Committee on Power Engineering and Electrification of the U.S.S.R.; collection of papers presented at a conference in Moscow on July 27-30 1962] O sostoianii i merakh po dal'neishemu uluchsheniiu okhrany truda i tekhniki bezopasnosti na stroikakh, predpriiatiiakh i v organizatsiiakh Gosudarstvennogo proizvodstvennogo komiteta po energetike i elektrifikatsii SSSR; sbornik materialov soveshchaniia, 27-30 iiulia 1962 g. Moskva, Gosenergoizdat, 1963. 190 p.

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[Outdoor heating networks; aid for technical inspectors and foremen of construction and installation organization] Naruzhnye teplovye seti; v pomoshch: tekhnadzoru i masteram stroitel'no-montazhnykh organizatsii. Moskva, Energiia, 1964. 29 p. (MIRA 18:3)

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